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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FIRST NAMED INVENTOR FILING DATE Pak Chong Tang US010061 6559 09/933,555 08/20/2001 06/04/2003 24737 7590 PHILIPS ELECTRONICS NORTH AMERICAN CORP **EXAMINER** 580 WHITE PLAINS RD LUK, LAWRENCE W TARRYTOWN, NY 10591 **ART UNIT** PAPER NUMBER 2838 DATE MAILED: 06/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

				Applicati n No.	Applicant(s)	- the	
Offic		Acti n Summary		09/933,555	TANG, PAK CHON	TANG, PAK CHONG	
	Onic	Acu n Sumi	mary	Examiner	Art Unit		
	The MAI	I ING DATE of this	COmmunication .	Lawrence Luk	2838	ŧ	
Period for	or Reply	LING DATE OF UITS	communication app	ears on the cover sheet v	vith the correspondence addr	ess	
- External e	ensions of time in SIX (6) MONT period for replained to replained to replained to replained to received to receive to received to receive to received to receive to received to receive to rece	may be available under the HS from the mailing date of the specified above is less that is specified above, the result in the set or extended per the	e provisions of 37 CFR 1.13 of this communication. than thirty (30) days, a reply maximum statutory period will for reply will, by statute, ee months after the mailing.	IS SET TO EXPIRE 3 No. 16(a). In no event, however, may a within the statutory minimum of this ill apply and will expire SIX (6) MO cause the application to become A date of this communication, even it	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this comm	nunication.	
Status							
1)	Respons	ive to communicat	tion(s) filed on	<u> </u>			
2a)□	This action	on is FINAL .	2b)⊠ This	s action is non-final.			
3) Dispositi	Since this closed in on of Clair	accordance with	condition for allowar the practice under E	nce except for formal ma x parte Quayle, 1935 C.	itters, prosecution as to the r D. 11, 453 O.G. 213.	nerits is	
4) 🖂	Claim(s)	<u>1-8</u> is/are pending	in the application.				
	4a) Of the	above claim(s)	is/are withdraw	n from consideration.			
5)	Claim(s) _	is/are allowe	ed.				
6)⊠	Claim(s) 1	<u>,2 and 5</u> is/are reje	ected.				
7)	Claim(s) <u>3</u>	<u>,4 and 6-8</u> is/are o	bjected to.				
8) Application	Claim(s) _ on Papers	are subject to	o restriction and/or	election requirement.			
9)□ T	he specific	cation is objected t	to by the Examiner.				
				⊠ accepted or b) objec	ted to by the Examiner		
	Applicant r	may not request that	any objection to the	drawing(s) be held in abeva	ince. See 37 CFR 1.85(a).		
11)∐ T	he propose	ed drawing correct	tion filed on i	s: a) approved b) di	sapproved by the Examiner.		
	If approved	d, corrected drawing	s are required in reply	to this Office action.			
12) T	he oath or	declaration is obje	ected to by the Exar	niner.			
Priority ur	nder 35 U.	S.C. §§ 119 and 1	20				
13) 🗌 🛚	Acknowled	gment is made of	a claim for foreign p	riority under 35 U.S.C. §	119(a)-(d) or (f)		
		Some * c) ☐ No					
1	I. ☐ Certif	fied copies of the p	oriority documents h	nave been received.			
2				nave been received in Ap	polication No.		
	3.⊟ Copie a _l	es of the certified of pplication from the	copies of the priority International Bures		eceived in this National Stag	je	
					119(e) (to a provisional app	lication)	
a) (The trank knowledgn	nslation of the fore	ign language provis	sional application has be priority under 35 U.S.C. §	en received	поаноп).	
2) Notice of	of Draftsperso	s Cited (PTO-892) on's Patent Drawing Re re Statement(s) (PTO-1	eview (PTO-948) 1449) Paper No(s) <u>2</u> .	4) Interview Su 5) Notice of Int 6) Other:	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152	<u> </u>	
S. Patent and Trade TO-326 (Rev.			Office Action	. 6			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Harlan (4,599,643).

Harlan discloses the elements as claimed. Specifically, Harlan shows an overcurrent protection circuit comprises: means for directly detecting the beam current; means for comparing the detected beam current with a predefined threshold level; and means, coupled to the control input of said high voltage generating circuit, for generating a control signal, in dependence on said comparing means, for turning off said high voltage generating circuit (refer to col.1, lines 48-61)

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harlan (4,599,643) in combination with Gurley et al. (5,043,639).

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In regard to claim 2, Harlan discloses the elements as claimed, except for the control signal generating means comprises means for latching said high voltage generating circuit in an off state.

Gurley et al. shows the control signal generating means comprises means for latching said high voltage generating circuit in an off state (refer to col.5, lines 4-11).

It would have been obvious to person having ordinary skill in the art at the time of the invention made to modify the device of Harlan to include the control signal generating means comprising means for latching said high voltage generating circuit in an off state as taught by Gurley et al. for the purpose of controlling beam current flow in the kinescope.

In regard to claim 5, Harlan shows a voltage supply coupled to said high voltage generating circuit for supplying said beam current (refer to col.4, lines 18-24), and a measuring resistor in series with said voltage supply and said high voltage generating circuit, wherein a voltage across said measuring resistor is proportional to the beam current (col.13, lines 3-29).

Allowable Subject Matter

5. Claims 3, 4 and 6-8 are objected to as being dependent upon a rejected base claim. The prior art of recond fails to teach or reasonably suggest that: Claim 3, an over-current protection circuit further comprises: means for generating a reference signal equivalent to said threshold level; and temperature compensating means for making

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said reference signal temperature independent, Claim 4, an over-current protection circuit further comprises: means for preventing said control signal generating means from erroneously generating said control signal due to picture tube arcing and/or random noise, Claim 6, a reference signal comprises: a voltage supply for supplying a constant voltage; a resistance divider coupled to said voltage supply; and a transistor having a base coupled to an interconnecting node of said resistance divider, a collector, coupled to said voltage supply, and an emitter for supplying said reference signal. Claim 7, said temperature compensating means comprises a series arrangement of diodes connecting said resistance divider to ground. Claim 8, control signal generating means comprises: a first transistor coupled to an output of said comparing means; a second transistor coupled to said first transistor; and a voltage source coupled to said second transistor, wherein said latching means connects said second transistor to said control input of said high voltage generating circuit, whereby when said detected beam current is greater than said predefined threshold level, said comparing means turns on said first transistor which, in turn, turns on said second transistor thereby dropping a voltage at said control input to substantially a zero voltage potential. Claims 3, 4 and 6-8 would be allowable if rewritten in independent from including all of the limitations of the base claim.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Luk whose telephone number is (703)305-0617. The examiner can normally be reached on 7 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (703) 308-1680. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-7724 for regular communications and (703)305-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1782.

LWL May 28, 2003

Lawrence hete examine

5/28/03